

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/30117

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01S 13/50, 13/62

US CL : 342/22, 28, 57, 58, 114; 340/541, 554

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 342/22, 28, 57, 58, 114; 340/541, 554

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,633,254 B1 (SUTPHIN) 14 October 2003 (14.10.2003), see entire document.	1-18
A	US 5,966,090 A (MCEWAN) 12 October 1999 (12.10.1999)	1-18
A	US 4,598,293 A (WONG) 01 July 1986 (01.07.1986)	1-18
A	US 4,527,151 A (BYRNE) 02 July 1985 (02.07.1985)	1-18
A	US 4,286,260 A (GERSHBERG et al) 25 August 1981 (25.08.1981)	1-18
A	US 4,051,472 A (ALBANESE et al) 27 September 1977 (27.09.1977)	1-18
A	US 3,836,960 A (GEHMAN et al) 17 September 1974 (17.09.1974)	1-18
A	US 3,832,709 A (KLEIN et al) 27 August 1974 (27.08.1974)	1-18



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

02 August 2005 (02.08.2005)

Date of mailing of the international search report

29 AUG 2005

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PCT/US04/30117

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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"New Microwave Sensors For Intrusion Detection Systems", Martinez, F.P.; Galeano, F.C.; Security Technology, 1999. Proceedings. IEEE 33rd Annual 1999 International Carnahan Conference on 5-7 Oct. 1999 Page(s):49 - 53.	1-18
A	"Improving Intrusion Detection Radar", Foley, E.; Harman, K.; Cheal, J.; Aerospace and Electronic Systems Magazine, IEEE Volume 17, Issue 8, Aug. 2002 Page(s):22 - 27.	1-18
A	"Reliable Motion Detection of Small Targets in Video with Low Signal-to-Clutter Ratios", Nichols, S.A.; Naylor, R.B.; Security Technology, 1995. Proceedings. Institute of Electrical and Electronics Engineers 29th Annual 1995 International Carnahan Conference on 18-20 Oct. 1995 Page(s):447 - 456.	1-18

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**Continuation of B. FIELDS SEARCHED Item 3:**  
EAST search terms: motion, sensing, detecting, remote  
IEEE search terms: motion, sensing, detecting, remote